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Substitute Form P1 1449 (Modified)

S. Department of Commerce Patent and Trademark Office

Attorney's Docket No. 10555-025001

Application No. 10/024,649

Information Disclosure Stat ment by Applicant (Use several sheets if necessary)

Applicants Youqi Wang, Marco Falcioni, Stephen J. Turner and C. Eric Ramberg

Filing Date

Group Art Unit 2)21

(37 CFR §1.98(b))

December 17, 2001

Examiner Initial	Desig.	Patent Number	Issue Date	Patentee	Class	Sub- class	Filing Date If Appropriate
CM	AA	5,759,779	6/2/98	Dehlinger	435	436	
00	ÁВ	5,763,263	6/9/98	Dehlinger	435	287	
UN	AC	6,044,212	*3/28/00	Flavin et al.	395	500.27	
08	AD	US 6,175,816 B1	*1/16/01	Flavin et al.	703	13	

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CX	AE	WO 99/59722	11/25/99	PCT	B01L 3/00		 7

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Initial	ID	Document			
69	AF	James N. Cawse, Ph.D., "Experimental Strategies for Combinatorial and High-Throughput Materials Development", Accounts of Chemical Research, 2001, vol. 34, no. 3, pp. 213-221			
6.67	AG	L. A. Corkan et al., "Application of an Automated Chemistry Workstation to Problems in Synthetic Chemistry", Chemometrics and Intelligent Laboratory Systems: Lab. Info. Mgmt., 1992, vol. 17, pp. 95-105.			
6.9	АН	L. A. Corkan and J. S. Lindsey, "Design Concepts for Synthetic Chemistry Workstations", Advances in Laboratory Automation Robotics, 1990, vol. 6, pp. 447-497.			
6.67	ΑI	L. A. Corkan and J. S. Lindsey, "Experiment Manager Software for an Automated Chemistry Workstation, Including a Scheduler for Parallel Experimentation", Chemometrics and Intelligent Laboratory Systems; Lab. Info. Mgmt., 1992, vol. 17, pp. 47-47.			
6.9	AJ	M. W. Deem, "A Statistical Mechanical Approach to Combinatorial Chemistry", Advances in Chemical Engineering 28, Academic Press, 2001, pp. 81-121			
,6.9	AK	M. Falcioni and M. W. Deem, "Library Design in Combinatorial Chemistry by Monte Carlo Methods", Phys. Rev. E 61, 2000, pp. 5948-5952			
6-1	AL	S. P.A. Foder, J. Leighton Red, M. C. Pirrung, L. Stryer, A. T. Lu, D. Solas, "Light-directed, spatially addressable parallel chemical synthesis", Science, (1991) Vol. 251, pp. 767-773			
4	AM	R. A. Houghten "Parallel array and mixture-based synthetic combinatorial chemistry: tools for the next millennium", Annu. Rev. Pharmocol. Toxicol. (2000) Vol. 40, pp. 273-82			
0.0	AN	H. Koinuma, T. Koida, T. Ohnishi, D. Komiyama, M. Lippmaa, M. Kawasaki, "Parallel fabrication of artificially designed superlattices by combinatorial laser MBE", Appl. Phys. A 69 Supp., (1999) S29-S31			
69	AO	J. S. Lindsey, "Automated Workstations for Chemical Synthesis in Japan: A New Paradigm for Pharmaceutical Research", Am. Lab., 1993, pp. 17, 18. 20.			
Ø.√	AP	J. S. Lindsey, "A Retrospective on the Automation of Laboratory Synthetic Chemistry", Chemometrics and Intelligent Laboratory Systems: Lab. Inf. Mgmt., 1992, vol. 17, pp. 15-45.			
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Substitute Form PTO (Modified)

5. Department of Commerce Patent and Trademark Office Attorney's Docket No. 10555-025001

Application No. 10/024,649

Applicants Youqi Wang, Marco Falcioni, Stephen J. Turner and C. Eric Ramberg

Filing Date

Group Art Unit 2

Information Disclosure Statement by Applicant (Use several sheets if necessary)

(37 CFR §1.98(b))

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Other Documents (include Author, Title, Date, and Place of Publication) Desig. Examiner Document J. S. Lindsey and L. A. Corkan, "Toward High-Performance Parallel Experimentation Machines: ID Initial

Use of a Scheduler as a Quantitative Computer-Aided Design Tool for Evaluating Workstation Performance", Chemometrics and Intelligent Laboratory Systems: Lab. Info. Mgmt., 1993, vol. 21, A. M. Thayer, "Bioinformatics for the Masses", Business, 2000, vol. 78, no. 6, CENEAR 78, pp.

December 17, 2001

19-32 SAS Institute, "JMP Statistical Discovery Software: Design of Experiments", 2000, Version 4

AS B. Yan, L. Liu, C. A. Astor and Q. Tang, "Determination of the absolute amount of resin-bound hydroxyl or carboxyl groups for the optimization of solid-phase combinatorial and parallel organic ΑT synthesis", Anal. Chem. (1999) vol. 71, pp. 4564-4571

Date Considered Examiner Signature e 0198

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129	AA	5,331,573	7/19/94	Balaj	ji et al.	364/500			
60	AB	5,386,507	1/31/95	Teig	et al.	395/161	· · ·	Pr.	
40	AC	5,434,796	7/10/95	Weir	ninger	364/496		~~	En
Vil	AD	5,526,281	6/11/96	Chap	man et al.	364/496	Techno	SEP 1	70
6-0	AE.	5,854,992	12/29/98	Shak	hnovich et al.	702/27	- Inc	6011	200
61	AF	5,862,514	1/19/99	Huse	et al.	702/22		J Co,	Mer -
(V)	AG	5,914,891	6/22/99	McA	dams et al.	364/578	-		2/5
61	AH	5,930,154	7/27/99	Thall	nammer-Reyero	364/578			
v V	AI	5,980,096	11/9/99	Thall	nammer-Reyero	364/578			
0.61	AJ	6,081,766	6/27/00	Chap	man et al.	702/27			
00	AK	6,144,897	11/7/00	Sellie	ers	700/269			
06/	AL	6,188,965 B1	2/13/01	Mayo	o et al.	702/27			
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	U.S. Patent Documents						
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6.0	AA	5,143,854	9/1/92	Pirrung et al.			
Ceil	AB	5,571,639	11/5/96	Hubbell et al.			·
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	Foreig	n Patent Doo	uments or P	ublished Foreign	Patent A	Application	ns .	
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60	AD	WO 96/11878	25 April 1996	PCT			-	
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1	A FC	Manfred Baerns, et al. "Chemical Reaction Technology", 1987, Georg Thieme Verlag, Stuttgart and
Cil	AF	New York, Textbook of Technical Chemistry, Vol. 1.
		J.J. Hanak, "The "Multiple-Sample Concept" in Materials Research: Synthesis Compositional
6:0	AG	Analysis and Testing of Entire Multicomponent Systems", © 1970 Chapman and Hall Ltd., pp. 964-
		971.
()		Eric W. McFarland and W. Henry Weinberg, "Approaches for Rapid Materials Discovery Using
6.1	AH	Combinatorial Methods", 1998, Mat. Tech. Vol. 13.3, pp. 107-120.
		MODDE 4.0, "Graphical Software for Design of Experiments", © 1992-1997 Umetri AB, pp. 1-1 to
(2)	ΑI	14-2.
	AJ	Statistica Vol. IV: Industrial Statistics, Copyright © StatSoft, 1995, pp. 4177-4473.
CV1		
100	AK	Peter G. Schultz and Xiao-Dong Xiang, "Combinatorial approaches to materials science", 1998, ©
1 0		Current Chemistry ISSN 1359-0286, pp. 153-158.
1 .1	AL	Linda C. Hsieh-Wilson, et al., "Lessons from the Immune System: From Catalysis to Materials
08/	AL	Science", © 1996 American Chemical Society, Vol. 29, pp. 164-170.
//		X.D. Xiang et al., "A Combinatorial Approach to Materials Discovery", 23 June 1995, Science, Vol.
Levy	AM	268, pp. 1738-1740.
./	437	XD. Xiang and P.G. Schultz, "The Combinatorial Synthesis and Evaluation of Functional
104	AN	Materials", 1997 Physica C, Vol. 282, pp. 428-430.
121	10	Earl Danielson, et al., "A combinatorial approach to the discovery and optimization of luminescent
	AO	materials", 30 October 1997, Nature, Vol. 389, No. 30, pp. 944-948.
0	4.0	Xiao-Dong Sun, "Solution-Phase Synthesis of Luminescent Materials Libraries", 1997, Advanced
الأث	AP	Materials, Vol. 9, pp. 1046-1049.
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6	4,368,509	1/11/83	Li	364	148	6/22/81	
6187	4,472,770	9/18/84	Li	364	148	9/29/82	
6.0	4,710,864	12/1/87	Li	364	148	9/19/84	
6.8	6,618,852	9/9/03	Van Eikeren et al.	717	108	9/13/99	
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